

**ANNUAL REPORT TO THE LEGISLATURE  
FOR YEAR 2010**

**2011 COASTAL ANADROMOUS FISH PASSAGE  
ASSESSMENT AND REMEDIATION  
PROGRESS REPORT**

**Prepared:**

**September 2011**

**Prepared by the California Department of Transportation  
Division of Environmental Analysis**

## **Progress Report January to December 2010**

### **Purpose and Background**

This is the sixth annual report prepared in accordance with Article 3.5 of Chapter 1 of Division 1 of the Streets and Highways Code (Senate Bill 857, Kuehl) that took effect January 1, 2006. This law directs the California Department of Transportation (Caltrans) to prepare an annual report describing the status of Caltrans' progress on locating, assessing, and remediating project related fish passage barriers. SB 857 also directs Caltrans to report its progress on developing a programmatic environmental review process to streamline the permitting process for remediating fish passage barrier projects.

This report updates our remediation progress and describes Caltrans' fish passage activities between January 1 and December 31, 2010. The report format was revised to refocus on individual road-stream crossings (barriers), rather than projects, with one or more crossings. Information related to construction issues that did not involve a pre-existing fish passage barrier was omitted.

Caltrans issued a policy memorandum on July 7, 2006, from Jay Norvell, Chief, Division of Environmental Analysis (DEA), to District Deputy Directors and others. That memorandum set SB 857 related policy, provided a copy of SB 857 and provided fish passage assessment and reporting protocols. DEA maintains intranet web pages containing copies of various policy memoranda and guidance, including a page for fish passage assessment, an annual SB 857 reporting page and a permit streamlining page. These pages provide easy access to policy and guidance for all staff and managers.

The Director at the time, Will Kempton, signed an agreement letter dated May 26, 2009, addressed to Assemblymember Eng, then Chair of the Assembly Transportation Committee, accepting an opportunity to administratively address issues proposed in Assembly Bill 1189 (Skinner 2009).

On May 6, 2010, Richard Land, Chief Engineer, issued a policy memorandum updating program and reporting requirements, plan updates and new reporting schedules. The memorandum formally incorporated the elements of the Kempton/Eng agreement, directed Caltrans districts to update fish passage plans, provided direction for the development of district fish passage remediation priorities and directed districts to name fish passage coordinators.

On December 16, 2010, Richard Land issued a policy memorandum encouraging additional efforts to remediate fish passage barriers.

### **Changes in Annual Reporting and Approach**

The focus of this report shifted from a project focus to a barrier focus. Tables now show one barrier per row sorted by location in the order of county, highway route, and post mile. The California Department of Fish and Game's (DFG) Passage Assessment Database (PAD) identification numbers are included in this report to improve the report's focus on individual barriers. The DFG and the California Fish Passage Forum designed the PAD to house and share fish passage barrier assessment data as part of the CalFish database system. The PAD includes web accessible database searching and mapping features that link specific barriers with web-based mapping via PAD identification (PAD\_ID) numbers. The PAD is found on the internet at: <http://www.calfish.org/tabid/83/Default.aspx>.

While common names are provided for projects in the tables, common project names vary between agencies. Caltrans uses project numbers for project identification. The provided PAD\_ID numbers are a standard barrier identification that can be used to compare locations across agencies.

### **Changes in Table Contents**

With the change to barrier focus and with the addition of PAD\_ID numbers, it was discovered that some “remediations” were included due to fish passage issues during construction rather than due to pre-existing barriers that needed remediation to allow fish passage. Such remediations were removed from the tables with a note in the text preceding the table. Other projects or barrier remediations were removed when funding or permitting issues indefinitely delayed or made the project and the remediation infeasible. Such remediations were also removed from tables with a note in the text preceding the table. Barriers that were remediated in 2010 were moved from the active remediations table (Table 2) to the completed remediations table (Table 1). Changed remediations are identified by their county, route and post mile so that they may be easily found in the tables.

### **Assessment and Remediation of Fish Passage Barriers**

#### **Project-level remediations since January 2006 (16 barriers):**

A map of locations listed in Table 1, Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006, is shown in Figure 1, Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006. Entries are ordered by District number, county, route and post mile. Three completed remediations were added this year: Mendocino 101, post mile 99.0; Tehama 99, post mile 15.6; and Napa 121, post mile 1.0, and are indicated in bold type in the table below. The Sierra/Yuba 49 post miles 4.0-9.4 location was removed because the crossing had no barrier prior to or after construction, only temporary fish passage issues during construction.

#### **Active Remediations Summary (25 barriers):**

A map of locations listed in Table 2, Fish Passage Barriers Under Remediation, is shown in Figure 2, Fish Passage Barriers Under Remediation. Table 2 shows one barrier per row rather than one project per row.

Three barriers were remediated (Napa 121, post mile 1.0; Tehama 99 post mile 14.0; and Napa 121 post mile 1.0) and moved to Table 1, and are indicated in bold. Nine new entries were added to this table: Mendocino 1 post mile 92.83 barrier, the “264 Culverts” project contained five separate fish passage barrier remediations, the Trinity 299 project contained two fish passage barrier remediation entries, and three barriers were added for Santa Barbara 101 post miles 5.6, 9.4, and 9.6.

One remediation was part of a project that had funding cancelled (Mendocino 101 post mile 14.4) and one project became inactive due to funding and permitting issues (Santa Barbara 101 post mile 55.0). Both were removed from the table.

As Table 2 was converted from a project focused table to a barrier focused table with PAD\_ID numbers, it was discovered that a number of projects were included due to temporary fish passage issues related to construction activities, but had no pre-existing fish passage barriers. Because no barrier remediation was possible, they were removed. The 10 removed barriers include

<b>Table 1. Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006</b>							
Map #	District	County	Route	Post Mile	PAD ID #	Stream Name	Project Name <sup>1</sup>
1	1	Del Norte	101	4.04	737008	Unnamed Tributary	Tributary to Elk Creek
2	1	Del Norte	101	43.7	715563	Lopez Creek	Smith River Widening
3	1	Humboldt	101	40.7	722447	Chadd Creek	Chadd Creek
4	1	Humboldt	101	115.3	737005	Unnamed Tributary	Stone Lagoon
5	1	Mendocino	101	81.4	706986	Rattlesnake Creek	Rattlesnake Creek
<b>6</b>	<b>1</b>	<b>Mendocino</b>	<b>101</b>	<b>99</b>	<b>707115 <sup>2</sup></b>	<b>Red Mountain Creek</b>	<b>Confusion Hill Mitigation</b>
7	2	Shasta	299	20.7	737289	Salt Creek	Salt Creek Fish Passage Improvement Project
8	2	Tehama	5	16.9	737006	Elder Creek	Elder and Dibble Creek Scour Mitigation Improvement
9	2	Tehama	5	28.1	737007	Dibble Creek	Elder and Dibble Creek Scour Mitigation
<b>10</b>	<b>2</b>	<b>Tehama</b>	<b>99</b>	<b>15.6</b>	<b>737013</b>	<b>Sunset Canal</b>	<b>Sunset Canal Bridge</b>
<b>11</b>	<b>4</b>	<b>Napa</b>	<b>121</b>	<b>1</b>	<b>714975</b>	<b>Huichica Creek</b>	<b>Duhig Road Realign Curves and Widen Shoulder</b>
12	5	Santa Barbara	101	33.9	706642	El Capitan Creek	El Capitan Creek
13	5	Santa Barbara	101	41	707405	Arroyo Hondo Creek	Arroyo Hondo
14	5	Santa Barbara	101	47.2	706669	Gaviota Creek	Gaviota Creek
15	5	Santa Cruz	1	10	706703	Valencia Creek	Valencia Creek; Tributary to Aptos Creek
16	5	Santa Cruz	1	17.4	735367	Branciforte Creek	Branciforte Creek and Carbonera Creek

<sup>1</sup> "Project Name" is provided for convenience here. PAD\_ID numbers provide a universal reference number that allows specific barrier identification across agencies and partners. Where PAD\_ID shows "N/A", a PAD\_ID was not available. PAD\_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD). <sup>2</sup>Remediations completed in 2010 are shown in bold text.

Alameda 84 post miles 12.1-13.3, Marin 1 post mile 22.7, Mendocino 1 post mile 62.5, Mendocino 101 post miles 8.0-17.8, Mendocino 101 post miles 14.0-14.8, Tehama 36 post mile 91.46, Tehama 99 post miles 13.9-14.3, Santa Barbara 101 post mile 2.2, Santa Barbara 101 post mile 55, Santa Clara/San Benito 101 post mile 5.0-0.0-4.9, Santa Cruz 1 post mile 31.55, and Santa Cruz 1 post mile 36.3.

<b>Table 2. Fish Passage Barriers Under Remediation.</b>								
<b>Map #</b>	<b>District</b>	<b>County</b>	<b>Route</b>	<b>Post Mile</b>	<b>Date <sup>1</sup></b>	<b>PAD_ ID</b>	<b>Stream Name</b>	<b>Project Name <sup>2</sup></b>
1	1	Mendocino	1	92.83	CCA 1/1/2014	706958	Dunn Creek	Dunn Creek Fish Passage
2	1	Mendocino	101	52.3	CCA 10/1/2014	707085	Ryan Creek	Encroachment Permit and FRGP Grant
3	1	Mendocino	101	66.5	CCA 11/1/2012	707096	Ten Mile Creek	36 Culverts
4	1	Mendocino	128	21.8	CCA 11/1/2012	707199	Clow Creek	264 Culverts
5	1	Mendocino	128	27.54	CCA 7/3/2014	707205	Graveyard Creek	264 Culverts
6	1	Mendocino	128	36.63	CCA 7/3/201	707208	Lost Creek	264 Culverts
7	1	Mendocino	128	39.88	DNS	707210	Beebe Creek	Beebe Storm Damage
8	1	Mendocino	128	39.88	CCA 7/3/2014	707210	Beebe Creek	264 Culverts
9	1	Mendocino	128	49.66	CCA 3/17/2012	707220	Edwards Creek	264 Culverts
10	2	Shasta	299	32.25	CCA 7/14/2014	737295	Lemm Creek (Yank Creek)	Bella Diddy Roadway Rehab.
11	2	Siskiyou	96	65.4	DNS	707147	O'Neil Creek	O'Neil Creek Culvert Removal
12	2	Trinity	299	68	CCA 10/12/2012	720511	Little Grass Valley Creek	Trinity Dam Boulevard. Fish Ladder
13	2	Trinity	299	68.2	CCA 10/14/2012	735688	Little Grass Valley Creek	Trinity Dam Boulevard. Fish Ladder
14	4	Sonoma	1	15.1	CCA 12/1/2013	733223	Scotty Creek	Gleason Beach
15	4	Sonoma	1	32.4	CCA 12/1/2014	723192	Fort Ross Creek	Fort Ross Creek
16	5	Santa Barbara	1	15.6	CCA 4/1/2014	700085	Salsipuedes Creek	Salsipuedes Creek
17	5	Santa Barbara	101	0	CCA 9/1/2014	707368	Rincon Creek	Rincon Creek
18	5	Santa Barbara	101	5.6	DNS	734310	Arroyo Parida Creek	South Coast HOV
19	5	Santa Barbara	101	9.4	DNS	705161	Romero Creek	South Coast HOV

<b>Table 2. Fish Passage Barriers Under Remediation (continued).</b>								
<b>Map #</b>	<b>District</b>	<b>County</b>	<b>Route</b>	<b>Post Mile</b>	<b>Date <sup>1</sup></b>	<b>PAD_ID</b>	<b>Stream Name</b>	<b>Project Name <sup>2</sup></b>
20	5	<b>Santa Barbara</b>	<b>101</b>	<b>9.6</b>	<b>DNS</b>	<b>734342</b>	<b>San Ysidro Creek</b>	<b>South Coast HOV</b>
21	5	Santa Barbara	192	15.5	CCA 6/1/2013	706239	Arroyo Parida Creek	Arroyo Parida Creek
22	7	Los Angeles	1	50.3	DNS	705781	Solstice Creek	Solstice Creek
23	7	Ventura	150	28.7	CCA 8/1/2012	723744	Santa Paula Creek	Santa Paula Creek
24	12	Orange	5	0.0	CCA 5/1/2018	713839	San Mateo Creek	San Mateo Creek
25	12	Orange	5	11.3	CalTrout Lead	706807	Trabuco Creek	Trabuco Creek

Changes from 2010 data are indicated in bold text. <sup>1</sup>Entries provide estimated construction completion dates. Dates are estimated when available pending funding, permitting, and regulatory negotiations. CCA means "Construction Contract Completion." DNS means "Date Not Scheduled." <sup>2</sup>"Project Name" is provided for convenience here. PAD\_ID numbers provide a universal reference number that allows barrier identification across agencies and partners. Where PAD\_ID shows "N/A", a PAD\_ID number was not available. PAD\_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

#### Project-Level Fish Passage Assessments (4 assessments)

A map of locations for items, in Figure 3, 2010 Fish Passage Assessments, are shown in Table 3, 2010 Fish Passage Assessments. Note that this table shows one barrier per row rather than one project per row.

Caltrans' District 4 (San Francisco Bay) completed four fish passage assessments in 2009 that indicated potential barrier issues.

<b>Table 3. 2010 Fish Passage Assessments</b>								
<b>Map #</b>	<b>Report Date</b>	<b>County</b>	<b>Route</b>	<b>Post Mile</b>	<b>PAD ID<sup>1</sup></b>	<b>Stream</b>	<b>Tributary to:</b>	<b>Project Name<sup>2</sup></b>
1	9/1/2010	Solano	80	12.9	N/A	Green Valley Creek	Cordelia Slough	I-80/680/SR 12 Interchange
2	9/1/2010	Solano	12	3.4	N/A	Ledgewood Creek	Peytonia Slough	I-80/680/SR 12 Interchange
3	9/1/2010	Solano	80	14.5	N/A	Suisun Creek	Grizzly Bay	I-80/680/SR 12 Interchange
4	11/24/2010	Sonoma	1	15.3	733223	Scotty Creek	Pacific Ocean	Gleason Beach

<sup>1</sup>PAD\_ID numbers provided a universal reference number that allows specific barrier identification across agencies and partners. Where PAD\_ID shows "N/A", a PAD\_ID number was not available. PAD\_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD). <sup>2</sup>"Project Name" is provided for convenience.

#### Planning-level assessments

##### *Grant-funded work*

No planning grant funds were available for 2010.

## Annual Barrier Priorities

### Priority List (24 crossings):

A map of locations for items, in Table 4, Transportation-Related Fish Passage Barrier Remediation, are shown in Figure 4, Transportation-Related Fish Passage Barrier Remediation. Note that this table shows one barrier per row rather than one project per row.

Table 4 contains road-stream crossing barriers that currently have high priority for remediation. All listed crossings have equal priority at this time; however, Caltrans and DFG continue working towards a combined transportation-related fish passage remediation priority list. Caltrans and DFG are working with the Fish Passage Forum to develop a statewide, technical, biological, fish passage barrier priority ranking system.

<b>Table 4. 2011 Priority Transportation-Related Fish Passage Barrier Remediation.</b>								
<b>Map link</b>	<b>District</b>	<b>PAD ID</b>	<b>County</b>	<b>Route</b>	<b>Post Mile</b>	<b>Site Name<sup>1</sup></b>	<b>Stream Name</b>	<b>Tributary to:</b>
A	1	707143	Del Norte	197	5.0	Sultan Creek	Sultan Creek	Smith River
B	1	707157	Humboldt	254	4.18	Fish Creek Avenue of the Giants	Fish Creek	S. Fork Eel River
C	1	705136	Mendocino	101	48.14	Upp Creek	Upp Creek	Mill Creek
D	1	707085	Mendocino	101	52.25	S. Fork Ryan Creek	Ryan Creek	Outlet Creek
E	2	36070	Shasta	299	32.2	Yank Creek (Lemon Creek Bridge)	Yank Creek	Cow Creek/ Sacramento River
F	2	707147	Siskiyou	96	65.0	O'Neil Creek	O'Neil Creek	Klamath River
G	2	737007	Tehama	5	28.1	Dibble Creek	Dibble Creek	Sacramento River
H	2	720511	Trinity	299	68	Little Grass Valley Creek	Little Grass Valley Creek	Grass Valley Creek/Trinity River
I	2	735688	Trinity	299	68.2	Little Grass Valley Creek	Little Grass Valley Creek	Grass Valley Creek/Trinity River
J	3	58718	El Dorado	89	13.3	Water Quality Improvement Project Camp Richardson	Tallac Creek	Lake Tahoe
K	3	58968	Butte	99	45.5	Pine Creek	Pine Creek	Sacramento River
L	3	58967	Butte	99	40.5	Rock Creek	Rock Creek	Sacramento River
M	4	737369	Napa	121	6.4	Tulocay Creek Bridge Replacement	Tulocay Creek	Napa River

<b>Table 4. 2011 Priority Transportation-Related Fish Passage Barrier Remediation( continued).</b>								
<b>Map link</b>	<b>District</b>	<b>PAD ID</b>	<b>County</b>	<b>Route</b>	<b>Post Mile</b>	<b>Site Name<sup>1</sup></b>	<b>Stream Name</b>	<b>Tributary to:</b>
N	4	N/A	Napa	121	9.3	Sarco Creek Bridge Replacement	Sarco Creek	Miliken Creek
O	4	733223	Sonoma	1	15.3	Gleason Beach	Scotty Creek	Pacific Ocean
P	4	723192	Sonoma	1	32.5	Culvert Replacement Project	Fort Ross Creek	Pacific Ocean
Q	5	700085	Santa Barbara	1	15.61	Salsipuedes Creek	Salsipuedes Creek	Santa Ynez River
R	5	707182	Santa Barbara	101	2.2	Carpinteria Creek	Carpinteria Creek	Pacific Ocean
S	5	706239	Santa Barbara	192	15.5	Arroyo Parida	Arroyo Parida	Pacific Ocean
T	7	705781	Los Angeles	1	50.3	Solstice Creek	Solstice Creek	Pacific Ocean
U	7	707368	Ventura	101	R43.6	Rincon Creek Bridge	Rincon Creek	Pacific Ocean
V	7	723744	Ventura	150	28.7	Santa Paula Creek	Santa Paula Creek	Santa Clara River
W	11	735076	San Diego	76	45.5	Wigham Creek	Wigham Creek	San Luis Rey River
X	11	712680	San Diego	76	29.46	SR-76 Pauma Creek	Pauma Creek	San Luis Rey River

<sup>1</sup> "Project Name" is provided for convenience here. PAD\_ID numbers provide a universal reference number that allows specific barrier identification across agencies and partners. Where PAD\_ID shows "N/A", a PAD ID was not available. PAD\_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

### **Programmatic Environmental Review Process**

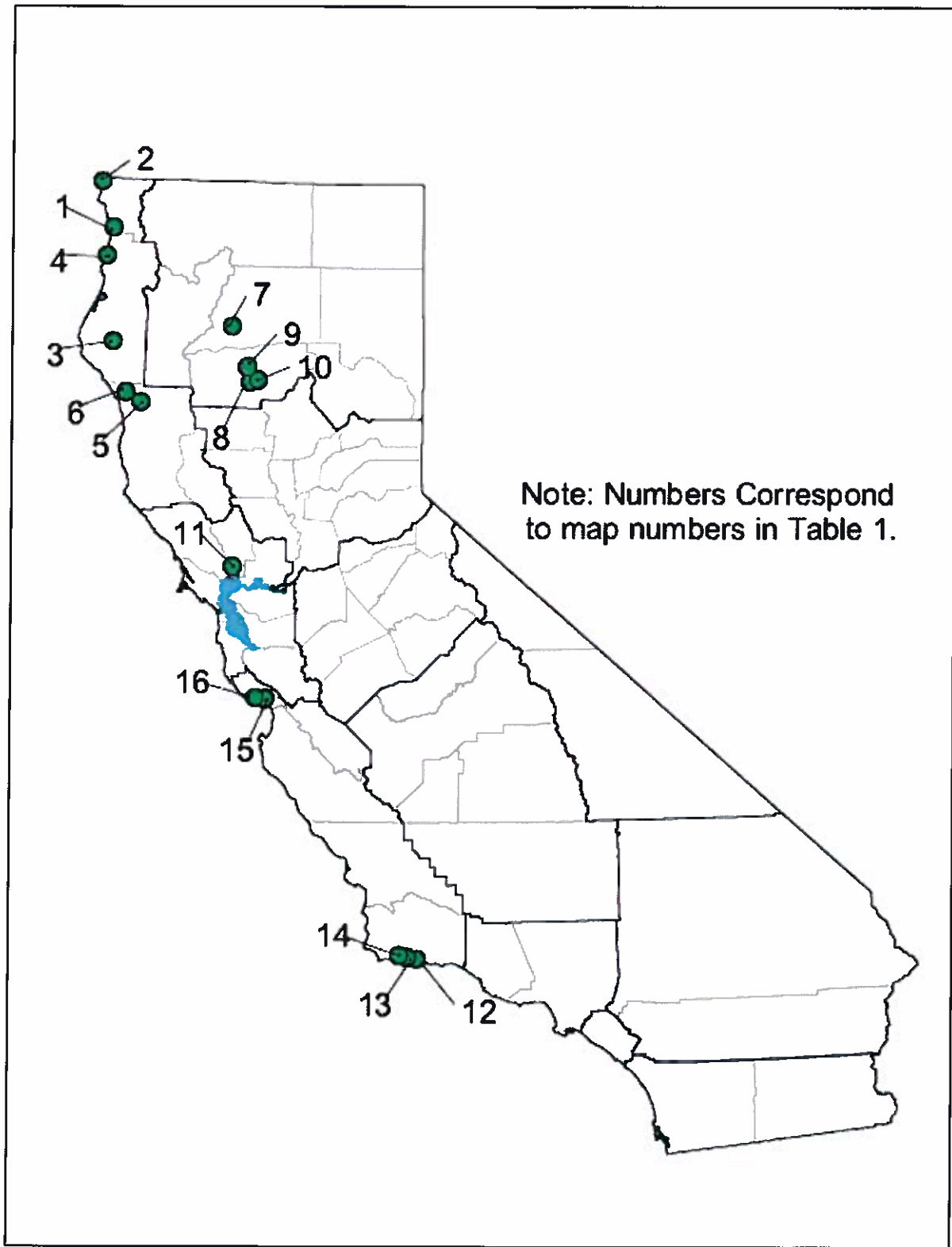
Caltrans continues working with DFG, the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS), and the U.S. Fish and Wildlife Service (USFWS) to negotiate streamlined environmental review and permitting procedures to improve fish passage remediation for coastal drainages from the Oregon border to Santa Cruz County. The agencies met to develop programmatic environmental authorizations for routine maintenance or for small projects that improve or provide fish passage. Routine maintenance includes culvert repair, culvert cleaning, and vegetation management. Small projects that typically include fish passage remediation efforts include culvert installation, weir and baffle installation, and small bridge construction.

The agreement requires consultation on approximately 58 plant species and 33 fish and wildlife species that may be affected by Caltrans' activities. Federal agencies prepared biological assessments to provide supporting documentation for their proposed actions. Programmatic biological assessments have been prepared and submitted to NOAA Fisheries and the USFWS. Caltrans and DFG are considering developing a programmatic Incidental Take Permit for multiple state-listed species for unspecified locations within the scope of this agreement. Caltrans has completed administrative drafts of a Draft Programmatic EIR and a draft Programmatic Incidental Take Permit Application and is in process of submitting them to DFG for review.



**Figures:**

**Figure 1. Completed Fish Passage Barrier Remediations Since January 1, 2006.**



**Figure 2. Fish Passage Barriers Under Remediation in 2010.**

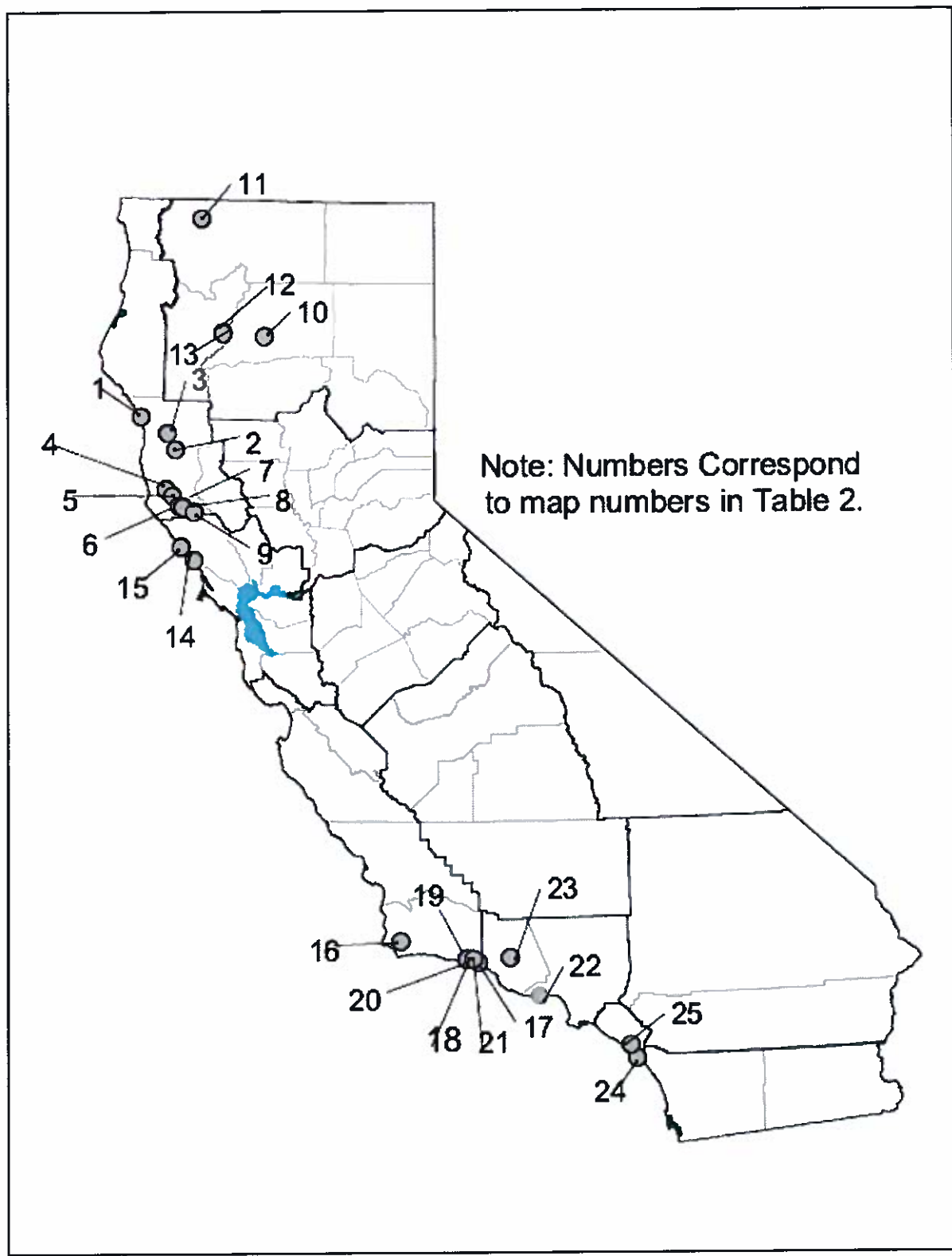


Figure 3. 2010 Caltrans Fish Passage Assessments.

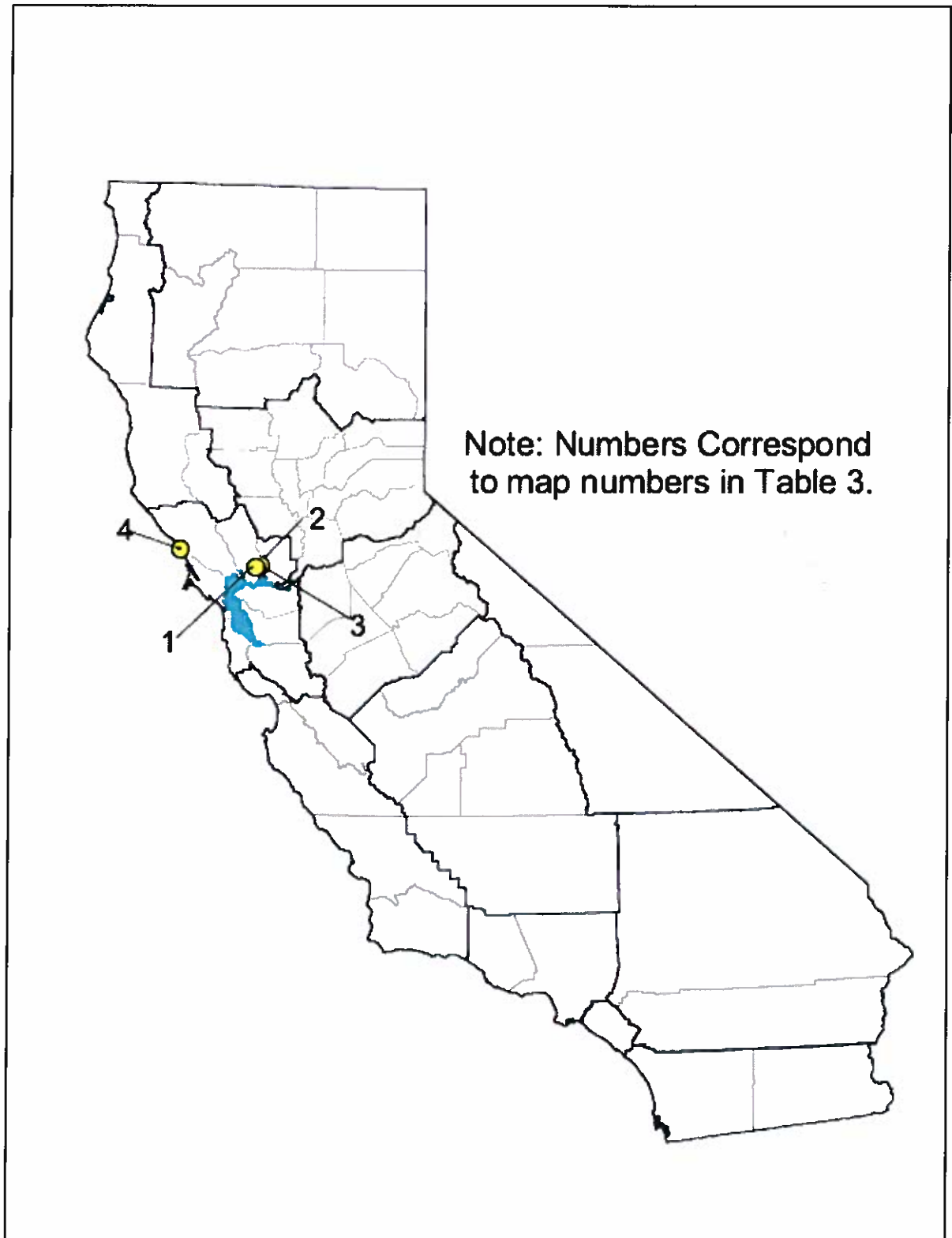


Figure 4. 2011 Transportation-Related Fish Passage Barrier Remediation Priorities.

